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(Not for submission under 37 CFR 1.99)

Application Number	10587371
Filing Date	2006-07-26
First Named Inventor	Ho Sung CHO
Art Unit	1647
Examiner Name	Shulamith H. SHAFER
Attorney Docket Number	AMBX-0028.00US

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1	DEBINSKI, W et al. "A wide range of human cancers express interleukin 4 (IL4) receptors that can be targeted with chimeric toxin composed of IL4 and Pseudomonas exotoxin," <i>J Biol Chem.</i> 1993 Jul 5;268(19):14065-70	<input type="checkbox"/>
2	DEITERS, A., et al., "Adding Amino Acids with Novel Reactivity to the Genetic Code of <i>Saccharomyces Cerevisiae</i> ," <i>J. Am. Chem. Soc.</i> 2003; 125(39):11782-11783	<input type="checkbox"/>
3	DELGADO, C et al., "The uses and properties of PEG-linked proteins," <i>Crit Rev Ther Drug Carrier Syst.</i> 1992;9 (3-4):249-304	<input type="checkbox"/>
4	DENNIS, MS et al., "Albumin binding as a general strategy for improving the pharmacokinetics of proteins," <i>J Biol Chem.</i> 2002 Sep 20;277(38):35035-43. Epub 2002 Jul 15	<input type="checkbox"/>
5	DOLPHIN, CT et al., "Missense mutation in flavin-containing mono-oxygenase 3 gene, FMO3, underlies fish-odour syndrome," <i>Nat Genet.</i> 1997 Dec;17(4):491-4	<input type="checkbox"/>
6	DORING, V et al., "Enlarging the amino acid set of <i>Escherichia coli</i> by infiltration of the valine coding pathway," <i>Science.</i> 2001 Apr 20;292(5516):501-4	<input type="checkbox"/>
7	DOUGHERTY, DA. "Unnatural amino acids as probes of protein structure and function," <i>Curr Opin Chem Biol.</i> 2000 Dec;4(6):645-52	<input type="checkbox"/>
8	DUEWEL, H et al., "Incorporation of trifluoromethionine into a phage lysozyme: implications and a new marker for use in protein 19F NMR," <i>Biochemistry.</i> 1997 Mar 18;36(11):3404-16	<input type="checkbox"/>
9	EHTEDARZADEH MK & S Henikoff "Use of oligonucleotides to generate large deletions" <i>Nucleic Acids Res.</i> 1986 Jun 25;14(12):5115	<input type="checkbox"/>
10	ELLING L et MR Kula., "Immunoaffinity partitioning: synthesis and use of polyethylene glycol-oxirane for coupling to bovine serum albumin and monoclonal antibodies," <i>Biotechnol Appl Biochem.</i> 1991 Jun;13(3):354-62	<input type="checkbox"/>
11	ELLIOTT, S et al., "Yeast-derived recombinant human insulin-like growth factor I: production, purification, and structural characterization," <i>J Protein Chem.</i> 1990 Feb;9(1):95-104	<input type="checkbox"/>

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12	ELLMAN, J.A., Mendel, D., Anthony-Cahill, S., Noren, C.J., Schultz, P.G. "Biosynthetic method for introducing unnatural amino acids site-specifically into proteins," <i>Methods in Enz.</i> , 1992; 202:301-336	<input type="checkbox"/>
13	ELLMAN, JA, et al. "Site-specific incorporation of novel backbone structures into proteins," <i>Science</i> . 1992 Jan 10;255 (5041):197-200	<input type="checkbox"/>
14	ENGLAND, P. M., et al., "Backbone mutations in transmembrane domains of a ligand-gated ion channel: implications for the mechanism of gating," <i>Cell</i> . 1999 Jan 8;96(1):89-98	<input type="checkbox"/>
15	EPPSTEIN et al., "Biological Activity of Liposome-Encapsulated Murine Interferon is Mediated by a Cell Membrane Receptor," <i>Proc. Natl. Acad. Sci. U.S.A.</i> (1985); 82: 3688-3692	<input type="checkbox"/>
16	FIESCHKO, JC et al., "Controlled expression and purification of human immune interferon from high-cell-density fermentations of <i>Saccharomyces cerevisiae</i> ," <i>Biotech. Bioeng.</i> (1987) 29(9):1113-21	<input type="checkbox"/>
17	FORSTER, AC et al., "Programming peptidomimetic syntheses by translating genetic codes designed de novo," <i>Proc Natl Acad Sci U S A</i> . 2003 May 27;100(11):6353-7. Epub 2003 May 16	<input type="checkbox"/>
18	FRANKEL, A et al., "Encodamers: unnatural peptide oligomers encoded in RNA," <i>Chem Biol</i> . 2003 Nov;10 (11):1043-50	<input type="checkbox"/>
19	FRASER, MJ et al., "Expression of eucaryotic genes in insect cell cultures," <i>In Vitro Cell. Dev. Biol.</i> 1989; 25:225-235	<input type="checkbox"/>
20	FRIEDMAN, O.M. & R. Chatterji. "Synthesis of Derivatives of Glutamine as Model Substrates for Anti-Tumor Agents," <i>J. Am. Chem. Soc.</i> 1959; 81(14):3750-3752	<input type="checkbox"/>
21	FRITZ HJ et al., "Oligonucleotide-directed construction of mutations: a gapped duplex DNA procedure without enzymatic reactions in vitro," <i>Nucleic Acids Res.</i> 1988 Jul 25;16(14B):6987-99	<input type="checkbox"/>
22	FROMM, M. et al., "Expression of Genes Transferred into Monocot and Dicot Plant Cells by Electroporation," <i>Proc. Natl. Acad. Sci. USA</i> (1985) 82:5824-8	<input type="checkbox"/>

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23	FURTER, R. "Expansion of the genetic code: site-directed p-fluoro-phenylalanine incorporation in Escherichia coli," Protein Sci. 1998 Feb;7(2):419-26	<input type="checkbox"/>
24	GAERTNER, HF et al., "Construction of protein analogues by site-specific condensation of unprotected fragments," Bioconjug Chem. 1992 May-Jun;3(3):262-8	<input type="checkbox"/>
25	GAERTNER, HF et al., "Chemo-enzymic backbone engineering of proteins. Site-specific incorporation of synthetic peptides that mimic the 64-74 disulfide loop of granulocyte colony-stimulating factor," J Biol Chem. 1994 Mar 11;269 (10):7224-30	<input type="checkbox"/>
26	GALLIVAN, JP et al., "Site-specific incorporation of biotinylated amino acids to identify surface-exposed residues in integral membrane proteins," Chem Biol. 1997 Oct;4(10):739-49	<input type="checkbox"/>
27	GELLISSEN, G et al., "Heterologous protein production in yeast," Antonie Van Leeuwenhoek. 1992 Aug;62(1-2):79-93	<input type="checkbox"/>
28	GEOGHEGAN, KF and JG Stroh, "Site-directed conjugation of nonpeptide groups to peptides and proteins via periodate oxidation of a 2-amino alcohol. Application to modification at N-terminal serine," Bioconjug Chem. 1992 Mar-Apr;3(2):138-46	<input type="checkbox"/>
29	GILLAM, S. & M Smith, "Site-specific mutagenesis using synthetic oligodeoxyribonucleotide primers: I. Optimum conditions and minimum oligodeoxyribonucleotide length," Gene 1979; 8(1):81-97	<input type="checkbox"/>
30	GLEESON, MA et al., "Transformation of the methylotrophic yeast hansenula polymorpha," J. GEN. MICROBIOL. (1986) 132:3459-3465	<input type="checkbox"/>
31	GOEDDEL, DV, "Systems for heterologous gene expression," Methods Enzymol. 1990;185.3:7	<input type="checkbox"/>
32	GOEDDEL, DV et al., "Synthesis of human fibroblast interferon by E. coli," Nucleic Acids Res. 1980 Sep 25;8 (18):4057-74	<input type="checkbox"/>
33	GOODSON RJ et NV Katre. "Site-directed pegylation of recombinant interleukin-2 at its glycosylation site," Biotechnology (N Y). 1990 Apr;8(4):343-6	<input type="checkbox"/>

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34	GRAVES, SW et al., "Expression, purification, and initial kinetic characterization of the large subunit of the human mitochondrial DNA polymerase," <i>Biochemistry</i> . 1998 Apr 28;37(17):6050-8	<input type="checkbox"/>
35	GRIFFIN, BA et al., "Specific Covalent Labeling of Recombinant Protein Molecules Inside Live Cells," <i>Science</i> (1998) 281:269-272	<input type="checkbox"/>
36	GRUNDSTRÖM T et al., "Oligonucleotide-directed mutagenesis by microscale 'shot-gun' gene synthesis," <i>Nucleic Acids Res.</i> 1985 May 10;13(9):3305-16	<input type="checkbox"/>
37	GUCKIAN, KM and ET Kool, "Highly Precise Shape Mimicry by a Difluorotoluene Deoxynucleoside, a Replication-Competent Substitute for Thymidine," <i>Angew. Chem. Int. Ed. Engl</i> (1998) 36(24):2825-8	<input type="checkbox"/>
38	HAMANO-TAKAKU, F et al., "A mutant Escherichia coli tyrosyl-tRNA synthetase utilizes the unnatural amino acid azatyrosine more efficiently than tyrosine," <i>J Biol Chem.</i> 2000 Dec 22;275(51):40324-8	<input type="checkbox"/>
39	HANG, HC and CR Bertozzi, "Chemoselective approaches to glycoprotein assembly," <i>Acc Chem Res.</i> 2001 Sep;34 (9):727-36	<input type="checkbox"/>
40	HARRIS, JM et al. "Synthesis and Characterization of Poly(ethylene Glycol) Derivatives," <i>J. Polym. Sci. Chem. Ed.</i> 1984; 22:341-352	<input type="checkbox"/>
41	HARRIS, JM. "Laboratory Synthesis of Polyethylene Glycol Derivatives," <i>JMS-Rev. Macromol. Chem. Phys.</i> 1985;C25 (3): 325-373	<input type="checkbox"/>
42	HENDRICKSON, WA et al., "Selenomethionyl proteins produced for analysis by multiwavelength anomalous diffraction (MAD): a vehicle for direct determination of three-dimensional structure," <i>EMBO J.</i> 1990 May;9(5):1665-72	<input type="checkbox"/>
43	HENIKOFF, S and JG Henikoff "Amino Acid Substitution Matrices from Protein Blocks," <i>Proc. Natl. Acad. Sci. USA</i> 1992; 89:10915-9	<input type="checkbox"/>
44	HESS, B. et al., "Cooperation of glycolytic enzymes," <i>J. ADV. ENZYME REG.</i> (1969) 7:149-67	<input type="checkbox"/>

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	45	HINNEN, A et al., "Transformation of yeast," Proc Natl Acad Sci U S A. 1978 Apr;75(4):1929-33	<input type="checkbox"/>
	46	HIRAO, I et al., "An unnatural base pair for incorporating amino acid analogues into proteins," Nat Biotechnol. 2002 Feb;20(2):177-82	<input type="checkbox"/>
	47	HITZEMAN, RA et al., "Isolation and characterization of the yeast 3-phosphoglycerokinase gene (PGK) by an immunological screening technique," J. Biol Chem. 1980 Dec 25;255(24):12073-80	<input type="checkbox"/>
	48	HOFMANN, K., et H. Bohn. "Studies on polypeptides. XXXVI. The effect of pyrazole-imidazole replacements on the S-protein activating potency of an S-peptide fragment," J. Am Chem, (1966); 88(24):5914-5919	<input type="checkbox"/>
	49	HOHSAKA, T et al., "Efficient Incorporation of Nonnatural Amino Acids with Large Aromatic Groups into Streptavidin in In Vitro Protein Synthesizing Systems," J. Am. Chem. Soc. 1999; 121(1); 34-40	<input type="checkbox"/>
	50	HOHSAKA, T et al., "Incorporation of Two Different Nonnatural Amino Acids Independently into a Single Protein through Extension of the Genetic Code," J. Am. Chem. Soc. 1999; 121(51):12194-12195	<input type="checkbox"/>

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